

AN 2000:578846 CAPLUS
DN 133:296758
ED Entered STN: 23 Aug 2000
TI Synthesis and properties of anthracene containing polyethers
AU Sinigersky, Vesselin; Mullen, Klaus; Klapper, Markus; Schopov, Ivan
CS Institute of Polymers, Bulgarian Academy of Sciences, Sofia, BG-113, Bulg.
SO Macromolecular Chemistry and Physics (2000), 201(11), 1134-1140
CODEN: MCHPES; ISSN: 1022-1352
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
CC 35-5 (Chemistry of Synthetic High Polymers)
AB Four poly(oxyethyleneanthrylene)s were prepared by polycondensation of 9,10-diacetoxyanthracene (and a substituted analog) with α,ω -dibromoalkanes. Two model compds. were also synthesized by the same procedure. Although non-conjugated the polymers could be doped with iodine. The redox reaction of doping was confirmed by the changes in the electronic and fluorescence spectra as well as by the appearance of paramagnetism and enhanced elec. conductivity. In comparison, the model compds. could not be doped. Doping with iodine occurs only when the polymers are in the solid state. This solid state polymer effect, reported also in previous publications, is explained by collective interactions of several anthracene units with the dopant.
ST anthracene polyether iodine doped prepn property; acetoxyanthracene bromoalkane polymn
IT Polyethers, preparation
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (anthracene-containing; synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT Spectra
(electronic; synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT Electric conductivity
(synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT 7553-56-2, Iodine, uses
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (dopant; synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT 90178-20-4P 301172-49-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (model; synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT 83174-57-6P 301172-38-3P 301172-39-4P 301172-40-7P 301172-41-8P 301172-45-2P 301172-47-4P 301172-48-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT 84-60-6, 2,6-Dihydroxyanthraquinone 108-24-7, Acetic anhydride 111-83-1, 1-Bromoocetane 604-66-0, 9,10-Diacetoxyanthracene 272441-67-5
RL: RCT (Reactant); RACT (Reactant or reagent) (synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α,ω -dibromoalkanes)
IT 301172-46-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α, ω -dibromoalkanes)

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UPOS.G Date last citing reference entered STN: 07 Oct 2009

OS.G CAPLUS 2009:1120426; 2009:333485; 2008:23175; 2006:759246; 2004:1007683

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RE CITED REFERENCES

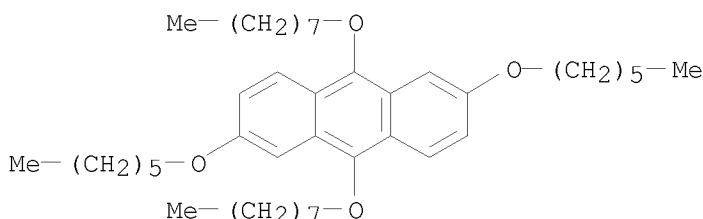
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IT 301172-49-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(model; synthesis and properties of anthracene containing polyethers from 9,10-diacetoxyanthracene or substituted analog with α, ω -dibromoalkanes)

RN 301172-49-6 CAPLUS

CN Anthracene, 2,6-bis(hexyloxy)-9,10-bis(octyloxy)- (CA INDEX NAME)



IT 301172-47-4P 301172-48-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and properties of anthracene containing polyethers from
9,10-diacetoxyanthracene or substituted analog with
 α, ω -dibromoalkanes)

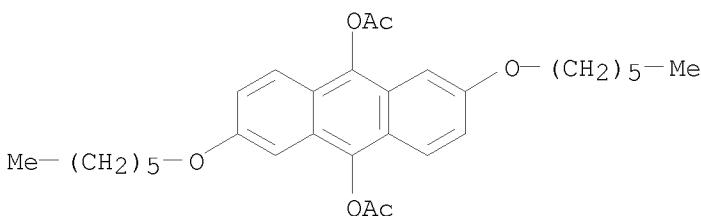
RN 301172-47-4 CAPLUS

CN 9,10-Anthracenediol, 2,6-bis(hexyloxy)-, diacetate, polymer with
1,10-dibromodecane (9CI) (CA INDEX NAME)

CM 1

CRN 301172-46-3

CMF C30 H38 O6



CM 2

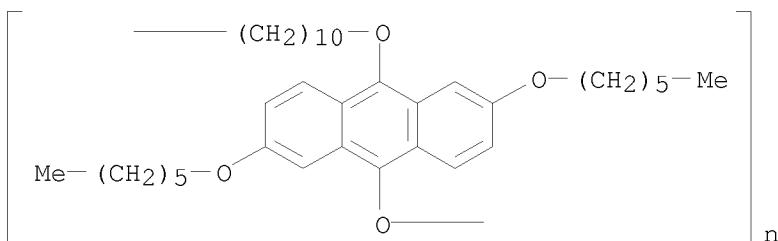
CRN 4101-68-2

CMF C10 H20 Br2

Br-(CH₂)₁₀-Br

RN 301172-48-5 CAPLUS

CN Poly[oxy[2,6-bis(hexyloxy)-9,10-anthracenediyl]oxy-1,10-decanediyl] (9CI)
(CA INDEX NAME)



IT 301172-46-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(synthesis and properties of anthracene containing polyethers from
9,10-diacetoxyanthracene or substituted analog with
 α, ω -dibromoalkanes)

RN 301172-46-3 CAPLUS

CN 9,10-Anthracenediol, 2,6-bis(hexyloxy)-, 9,10-diacetate (CA INDEX NAME)

